Nagabandi Jayababu

List of Publications by Year
in descending order

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31	954	471371	477173
papers	citations	17	29
		h-index	g-index

31	31	31	1090
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rational design of cobalt-iron bimetal layered hydroxide on conductive fabric as a flexible battery-type electrode for enhancing the performance of hybrid supercapacitor. Journal of Alloys and Compounds, 2022, 904, 164082.	2.8	14
2	Clay-assisted hierarchical growth of metal-telluride nanostructures as an anode material for hybrid supercapacitors. Applied Clay Science, 2022, 225, 106539.	2.6	19
3	Boosting a Power Performance of a Hybrid Nanogenerator via Frictional Heat Combining a Triboelectricity and Thermoelectricity toward Advanced Smart Sensors. Advanced Materials Technologies, 2021, 6, .	3.0	15
4	Preparation of NiO decorated CNT/ZnO core-shell hybrid nanocomposites with the aid of ultrasonication for enhancing the performance of hybrid supercapacitors. Ultrasonics Sonochemistry, 2021, 71, 105374.	3.8	36
5	Smart Sensors: Boosting a Power Performance of a Hybrid Nanogenerator via Frictional Heat Combining a Triboelectricity and Thermoelectricity toward Advanced Smart Sensors (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overloc	30	
6	Room temperature ammonia sensing of Î±-MoO3 nanorods grown on glass substrates. Thin Solid Films, 2021, 722, 138575.	0.8	22
7	ZnO nanorods@conductive carbon black nanocomposite based flexible integrated system for energy conversion and storage through triboelectric nanogenerator and supercapacitor. Nano Energy, 2021, 82, 105726.	8.2	32
8	Novel Conductive Ag-Decorated NiFe Mixed Metal Telluride Hierarchical Nanorods for High-Performance Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 19938-19949.	4.0	34
9	CuCo LDHs Coated CuCoTe Honeycombâ€Like Nanosheets as a Novel Anode Material for Hybrid Supercapacitors. Small, 2021, 17, e2102369.	5.2	38
10	Co/Zn bimetal organic framework elliptical nanosheets on flexible conductive fabric for energy harvesting and environmental monitoring via triboelectricity. Nano Energy, 2021, 89, 106355.	8.2	26
11	Self-powered transparent and flexible touchpad based on triboelectricity towards artificial intelligence. Nano Energy, 2020, 78, 105325.	8.2	59
12	Performance-Enhanced Triboelectric Nanogenerator Based on the Double-Layered Electrode Effect. Polymers, 2020, 12, 2854.	2.0	12
13	Hybridized generator: Freely movable ferromagnetic nanoparticle-embedded balls for a self-powered tilt and direction sensor. Extreme Mechanics Letters, 2020, 41, 101063.	2.0	5
14	Facile Fabrication of Double-Layered Electrodes for a Self-Powered Energy Conversion and Storage System. Nanomaterials, 2020, 10, 2380.	1.9	6
15	Development of CdO/ZnO nanocomposites for the rapid detection and discrimination of n-butanol. Surfaces and Interfaces, 2020, 20, 100586.	1.5	15
16	Boron Nitride Nanotube-Based Contact Electrification-Assisted Piezoelectric Nanogenerator as a Kinematic Sensor for Detecting the Flexionâ€“Extension Motion of a Robot Finger. ACS Energy Letters, 2020, 5, 1577-1585.	8.8	29
17	Ultrasensitive sensor based on Y2O3-In2O3 nanocomposites for the detection of methanol at room temperature. Ceramics International, 2019, 45, 21497-21504.	2.3	29
18	Synthesis of ZnO/NiO nanocomposites for the rapid detection of ammonia at room temperature. Materials Science in Semiconductor Processing, 2019, 102, 104591.	1.9	58

#	Article	IF	Citations
19	Ultrasensitive resistivity-based ethanol sensor based on the use of CeO2-Fe2O3 core-shell microclusters. Mikrochimica Acta, 2019, 186, 712.	2.5	10
20	Synthesis of Y2O3-ZnO nanocomposites for the enhancement of room temperature 2-methoxyethanol gas sensing performance. Journal of Alloys and Compounds, 2019, 798, 438-445.	2.8	20
21	Semi shield driven p-n heterostructures and their role in enhancing the room temperature ethanol gas sensing performance of NiO/SnO2 nanocomposites. Ceramics International, 2019, 45, 15134-15142.	2.3	48
22	NiO decorated CeO₂ nanostructures as room temperature isopropanol gas sensors. RSC Advances, 2019, 9, 13765-13775.	1.7	60
23	Room temperature ethanol gas sensing performance of CeO2â‹ In2O3 heterostructured nanocomposites. AIP Conference Proceedings, 2019, , .	0.3	4
24	Enhanced room temperature ammonia gas sensing performance of ZnO-Cr2O3 heterostructured nanocomposites. AIP Conference Proceedings, 2019, , .	0.3	2
25	Facile synthesis of SnO2-Fe2O3 core-shell nanostructures and their 2-methoxyethanol gas sensing characteristics. Journal of Alloys and Compounds, 2019, 780, 523-533.	2.8	32
26	Improved gas sensing performance of Al doped ZnO/CuO nanocomposite based ammonia gas sensor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 227, 61-67.	1.7	197
27	Enhancement of the isopropanol gas sensing performance of SnO₂/ZnO core/shell nanocomposites. Journal of Materials Chemistry C, 2017, 5, 2662-2668.	2.7	109
28	Structural and morphological studies on Au doped In2O3 thin films by electron beam evaporation technique for solar cell applications. Materials Today: Proceedings, 2016, 3, 4182-4186.	0.9	2
29	Chromium substitution effect on the structural, optical, electrical and magnetic properties of Nickel ferrite nano particles; synthesized by an environmentally benign auto combustion method. Materials Today: Proceedings, 2016, 3, 3666-3672.	0.9	9
30	Influence of annealing temperature on structural and dielectric properties of e-beam evaporated WO3 thin films. Materials Today: Proceedings, 2016, 3, 4199-4204.	0.9	8
31	Antibacterial and Soluble Paper-Based Skin-Attachable Human Motion Sensor Using Triboelectricity. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	4